

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-053759

(43)Date of publication of application : 19.02.2002

---

(51)Int.Cl. C08L101/02  
B05D 5/00  
B05D 7/00  
B05D 7/24  
C08K 5/5415  
C08L 79/00  
C09D179/00  
C09D183/04  
C09D183/06  
C09D201/00  
C09D201/02  
C09D201/08  
E01F 9/04

---

(21)Application number : 2001-169522

(71)Applicant : ROHM & HAAS CO

(22)Date of filing : 05.06.2001

(72)Inventor : BROWN WARD THOMAS

---

(30)Priority

Priority number : 2000 209354 Priority date : 05.06.2000 Priority country : US

---

(54) ABRASION-RESISTANT COATING COMPOSITION AND MANUFACTURING METHOD OF COATING

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a water-based coating composition comprising a water-based emulsion bearing at least two functional groups reactive with a carbodiimide group, a polycarbodiimide and an alkoxysilane which either constitutes a part of a polycarbodiimide or is reactive with a polycarbodiimide or is reactive with a water-based emulsion polymer, and an abrasion-resistant coating composition.

SOLUTION: The composition comprises (a) a polycarbodiimide bearing at least two carbodiimide groups, (b) a water-based emulsion polymer and (c) an alkoxysilane, where the water-based emulsion polymer bears at least two functional groups reactive with the carbodiimide group and at least one functional group reactive with the alkoxysilane and the alkoxysilane bears at least one functional group reactive with the water-based emulsion polymer.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]